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DERWENT-WEEK: 198122
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TITLE: Solar energy utilisation - by photosynthetic plant
growth for food and
biomass based energy generation

INVENTOR: KRAUS, H

PATENT-ASSIGNEE: MAN MASCHFAB AUGSBURG-NUERNBERG [MAUG]

PRIORITY-DATA: 1979DE-2941691 (October 15, 1979)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
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DE 2941691 A	May 21, 1981	N/A
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INT-CL (IPC): C05F013/00; C07C009/04 ; C07C031/08

ABSTRACTED-PUB-NO: DE 2941691A

BASIC-ABSTRACT: Solar energy is utilised by converting it
through
photosynthesis into organic plant matter. The prim. yield
of the plant
substance is partly used as food for man and cattle and
partly mixed with the
sec. yield in the shape of human and animal excreta. The
mixt. is converted to
methane or ethyl alcohol by an anaerobic fermentation of
the mesophilic or
thermophilic type. The digested sludge produced is dried,
granulated and
applied as nitrogenous fertiliser to the fields to close
the biological cycle.

This saves other types of not reclaimable energy (coal,
oil) and replaces them
by inexhaustible supplies of solar energy.

TITLE-TERMS:

SOLAR ENERGY UTILISE PHOTOSYNTHESIS PLANT GROWTH FOOD
BIOMASS BASED ENERGY

GENERATE

DERWENT-CLASS: C03 C04 D13 D16 E19 X15

CPI-CODES: C04-A07D; C04-B04B; C10-E04D; C10-J02; C12-L09;
C12-N09; C12-N10;
D05-B; D05-C; E10-E04E; E10-J02D;

EPI-CODES: X15-X;

CHEMICAL-CODES:

Chemical Indexing M1 *01*

Fragmentation Code

V400 V600 V404 V633 N130 P113 P111 P112 M720 R003
R002 R031 R032 R033 R034 R036 R038 R043 M423 M902

Chemical Indexing M2 *02*

Fragmentation Code

M210 M211 M231 M311 M320 M610 M620 N130 M510 M520
M530 M540 M720 M416 M902

Chemical Indexing M2 *03*

Fragmentation Code

H4 M210 M212 M231 M270 M281 M312 M320 H401 H481
M620 N130 M510 M520 M530 M540 M720 M416 M902

Chemical Indexing M3 *04*

Fragmentation Code

M210 M211 M231 M311 M320 M610 M620 N130 Q233 M510
M520 Q413 M530 M540 M720 M416 M902

Chemical Indexing M3 *05*

Fragmentation Code

H4 M210 M212 M231 M270 M281 M312 M320 H401 H481
M620 N130 Q232 Q233 M510 H8 M520 M530 M540 M720
M416 M902